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Product datasheet for SC304812

KIDINS220 (NM_020738) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIDINS220 (NM_020738) Human Untagged Clone
Tag:	Tag Free
Symbol:	KIDINS220
Synonyms:	ARMS; SINO
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene sequence for NM_020738 edited
GCCGCCGGGTGTGGTGAGGGCGACGCGCTTGCAGTCGCCGTCTCTTGCTTCCCCGTCCTC
TGACATCGCCTGCAGCCGAGCGGGCCCGTTCCGCCGGAGCTGAGGACCAGGTATTCAAAT
AAAGTTAATTGCAGCTTTCTGTGAAAATGTCAGTTTTGATATCACAGAGCGTCATAAATT
ATGTAGAGGAAGAAAACATTCCTGCTCTGAAAGCTCTTCTTGAAAAATGCAAAGATGTAG
ATGAGAGAAATGAGTGTGGCCAGACTCCACTGATGATAGCTGCCGAACAAGGCAATCTGG
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GTTACAAAGGCCGTACTGACGTAGTAGAGTTGCTTCTTTCTCATGGTGCCAATCCAAGTG
TCACTGGTCTGCAGTACAGTGTTTACCCAATCATTTGGGCAGCAGGGAGAGGCCATGCAG
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CTGAAACAGACGGTGACATGCTTGGATATGATTTATATAGCAGTGCCCTGGCAGATATTC
TCAGTGAGCCTACCATGCAGCCACCCATTTGTGTGGGGTTATATGCACAGTGGGGAAGTG

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GGAAATCTTTCTTACTCAAGAAACTAGAAGACGAAATGAAAACCTTCGCCGGACAACAGA
TTGAGCCTCTCTTTCAGTTCTCATGGCTCATAGTGTTTCTTACCCTGCTACTTTGTGGAG
GGCTTGGTTTATTGTTTGCCTTCACGGTCCACCCAAATCTTGGAATAGCAGTGTCACTGA
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CTTTTTAAAAAAAAATTTGGAAACATGTAACAAAGCAAGGGTAAAATATATATATATATC
TATATAAGTGCTGTGACTGTAAAAGTGTACTTTCCATTAATTATTAGCCGAGTTAAGAGA
ATGGTCACATTGAAGTACTGTGTGGACTAGAAATGTACCCTGTCATCATGCAATGAAATA
TTGTTATCGTTTTAACATAGCTCATTTATGTAGAATGAATTCTGGTGGTTTACCCCAAGT
CACAGTTAGGACGGTAGATGGTGAGATCGCAGATGCGCTATTATCTAGA

Restriction Sites: Please inquire

ACCN: NM_020738

Insert Size: 6800 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: The ORF of this clone has been fully sequenced and found to be a perfect match to NM_020738.1.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_020738.1, NP_065789.1
RefSeq Size:	7264 bp
RefSeq ORF:	5316 bp
Locus ID:	57498
UniProt ID:	Q9ULH0
Cytogenetics:	2p25.1
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Neurotrophin signaling pathway
Gene Summary:	This gene encodes a transmembrane protein that is preferentially expressed in the nervous system where it controls neuronal cell survival, differentiation into exons and dendrites, and synaptic plasticity. The encoded protein interacts with membrane receptors, cytosolic signaling components, and cytoskeletal proteins, serving as a scaffold that mediates crosstalk between the neurotrophin pathway and several other intracellular signaling pathways. Aberrant expression of this gene is associated with the onset of various neuropsychiatric disorders and neurodegenerative diseases, including Alzheimer's disease. Naturally occurring mutations in this gene are associated with a syndrome characterized by spastic paraplegia, intellectual disability, nystagmus and obesity. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2017] Transcript Variant: This variant (1) encodes isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.